**Classical Pathway**

Ab attach to mirco Ag C1 binds then splits C2 and C4, C2a and C4b combine activating C3 (complement cascade) this then splites and cause opsonization, cytolysis (C3b) and Inflammaion (C3a)

- Complement is activated by antigen

 –

antibody complex (IgM or IgG) - Fc portion of the antibody form a binding site for C1q

The numerical sequence of the complement factors in the classic pathway is: C1q,r,s , C4, C2, C3, C5, C6, C7, C8, C9

**Alternative Pathway**

Micro with Lipid cabrohydrate has Factor B, D, and P attach to surface these combine with C3 (complement cascade) this then splites and cause opsonization, cytolysis (C3b) and Inflammaion (C3a)

**Lectin Pathway**

Mirco with carbohydrate contaning mannose binds lectin that splits C2 and C4, C2a and C4b combine activating C3 (complement cascade) this then splites and cause opsonization, cytolysis (C3b) and Inflammaion (C3a)







